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Test report on Compressive strength of concrete cubes

Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S KRIDL
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	26.03.18	23.04.18	28 days	8.120	22500	342	15.20	15.32
2	26.03.18	23.04.18	28 days	8.124	22500	345	15.33	
3	26.03.18	23.04.18	28 days	8.110	22500	347	15.42	

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Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S KRIDL
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Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressiv strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	26.03.18	23.04.18	28 days	8.120	22500	339	15.07	
2	26.03.18	23.04.18	28 days	8.124	22500	340	15.11	15.17
3	26.03.18	23.04.18	28 days	8.110	22500	345	15.33	

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S KRIDL
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	26.03.18	02.04.18	7 days	8.110	22500	222	9.87	9.85
2	26.03.18	02.04.18	7 days	8.120	22500	220	9.78	
3	26.03.18	02.04.18	7 days	8.112	22500	223	9.91	

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Test Report on Cement

Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S KRIDL
Sample ID	Cement
Date of Sample Tested	04.04.18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	332 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

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Test Report on Cement

Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S KRIDL
Sample ID	Cement
Date of Sample Tested	04.04.18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/S KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Side Concrete	
Sample Location	At Plant	Date of Sampling	04.04.18	
		Date of Testing	04.04.18	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	254	254	2.54	97.46	95 - 100
10.00 mm	4611	4865	48.65	51.35	25 - 55
4.75 mm	4216	9081	90.81	9.19	0 - 10
Pan	919	10000			

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/S KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Drain	
Sample Location	At Plant	Date of Sampling	04.04.18	
		Date of Testing	04.04.18	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	284	284	2.84	97.16	95 - 100
10.00 mm	4682	4966	49.66	50.34	25 - 55
4.75 mm	4323	9289	92.89	7.11	0 - 10
Pan	711	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli	
Consultants	TEJUS CONSULTANTS	
Contractor	M/S KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Drain	
Sample Location	Plant		Date of Sampling	04.04.18	
			Date of Testing	04.04.18	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	547	547	5.47	94.53	90-100
10.0	3216	3763	37.63	62.37	40-85
4.75	5563	9326	93.26	6.74	0-10
Pan	674	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli	
Consultants	TEJUS CONSULTANTS	
Contractor	M/S KRIDL	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Drain	
Sample Location	Plant		Date of Sampling	04.04.18	
			Date of Testing	04.04.18	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	554	554	5.54	94.46	90-100
10.0	3284	3838	38.38	61.62	40-85
4.75	5622	9460	94.60	5.40	0-10
Pan	540	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S KRIDL

SPECIFIC GRAVITY AND WATER ABSORPTION

Type of Material	Sand	Proposed Use	coping concrete/PCC
Location/Source	At Plant/At site	Date of Sampling	04.04.18
Period of Soaking	24 hours	Date of Testing	04.04.18

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	654	647	675	
B	Weight of oven - dry sample gm.	642	638	666	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1684	1682	1700	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.620	2.658	2.664	2.648
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.869	1.411	1.351	1.544

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